

A1
Cont

a data processing device which comprises a second data transceiver for performing reception and transmission of data in connection with the first data transceiver section, a data analysis section for analyzing the data received from the second data transceiver section, and a data reading/setting section; and

wherein the data input/output device is capable of inputting and outputting data regarding a service class of a buffer, such as a service category and a QOS class.

A2

3. (Amended) A multi-service-class definition type switch according to claim 1, wherein the data processing device performs processing regarding reception, transmission and analysis on data regarding a service class, a buffer number and a request type, so that reading and setting of the data can be made with respect to a prescribed buffer selected from the buffer section in response to a result of the processing.

4. (Amended) A multi-service-class definition type switch according to claim 1, wherein the data processing device is capable of adding and storing new data regarding at least one of a new service category and a new QOS class.

5. (Amended) A service class defining method for defining a service class for each of a plurality of buffers provided within a switch, comprising the steps of:
inputting data with regard to a service class containing a service category and a QOS class;

detecting a mode, which is one of a data setting mode, a data read mode, a data addition mode and a data deletion mode, on the basis of a request type designated by the data;

defining a buffer, within the plurality of buffers, to be related to the service class of the data;

performing an operation on the data in association with the buffer in response to the detected mode; and

outputting content of the data.

6. (Amended) A service class defining method for defining a service class for at least one of a plurality of buffers provided within a switch, comprising the steps of:

inputting data for one of the plurality of buffers, wherein the data comprises at least one of a service category and a QOS class;

setting the data to a buffer whose buffer number is designated by the data within the plurality of buffers when a request type of the data corresponds to a data setting mode; and

outputting content of the data set to the buffer.

Please add the following new claims 9-17:

9. (New) A service class data reading method for reading data relating to a service class of at least one of a plurality of buffers provided within a switch, comprising the steps of:

inputting data relating to one of the plurality of buffers, wherein the data comprises at least a buffer number;

A Cont
reading data relating to a service class of the buffer corresponding to the inputted data
when a request type of the data corresponds to a data reading mode, wherein the data relating to
the service class comprises at least one of a service category and a QOS class; and
outputting content of the data read from the buffer.

10. (New) A service class data addition method for adding data relating to a service
class for at least one of a plurality of buffers provided within a switch, comprising the steps of:
inputting data relating to a new service class, wherein the data relating to the new service
class comprises at least one of a new service category and a new QOS class;
storing the inputted data relating to the new service class in a storage section; and
outputting the data relating to the new service class.

11. (New) A service class data deletion method for deleting data relating to a service
class for at least one of a plurality of buffers provided within a switch, comprising the steps of:
inputting data relating to a deletion of a service class, wherein the data relating to the
deletion of a service class comprises at least one of a service category to be deleted and a QOS
class to be deleted;
deleting the inputted data relating to the deletion of a service class from a storage section;
and
outputting the data relating to the deletion of the service class.

113
Conf

12. (New) A multi-service-class definition switch according to claim 1, wherein the switch is an ATM switch.

13. (New) A service class defining method according to claim 5, wherein the switch is an ATM switch.

14. (New) A service class defining method according to claim 6, wherein the switch is an ATM switch.

15. (New) A service class data reading method according to claim 9, wherein the switch is an ATM switch.

16. (New) A service class data addition method according to claim 10, wherein the switch is an ATM switch.

17. (New) A service class data deletion method according to claim 11, wherein the switch is an ATM switch.